

SUMMARY

Range Safety was involved in a number of exciting and challenging activities and events in 2010 involving the development, implementation, and support of range safety policies and procedures.

The completion of the latest revision of NPR 8715.5, "Range Flight Safety Program," in 2010 was a significant achievement. Changes implemented included measures to incorporate lessons-learned, clarify the waiver process, and adopt emerging trends seen in the Range Safety community. Policy work also included launch support policy and agreements updates to the KCA-1305, "KSC/45 SW/SSP Memorandum of Agreement (MOA) for Range Safety," and KCA-1308, "KSC/45 SW Joint Operating Procedure (JOP) for Safety," which were scheduled for triennial review. KCA-1305 was finalized on 14 September 2010, and KCA-1308 is expected to be approved early in CY2011. Progress was also made toward the anticipated 2011 completion of AFSPCMAN 91-710(T), a tailored document combining applicable NASA, industry, and Air Force Range Safety requirements into a single standard for NASA expendable launch vehicle payload projects.

Range Safety representatives took part in a number of panels and councils, including the Range Commanders Council Range Safety Group and its subgroups. Range Safety representatives from NASA HQ Office of Safety and Mission Assurance, KSC, DFRC, and WFF are actively supporting the Range Safety Group.

Advancing our effort to provide training at various levels of Range Safety, NASA Range Safety has conducted over 40 training courses for NASA, DoD, FAA, and contractor personnel. Over 800 students have participated to date, with 588 students participating in 22 Range Safety Orientation courses. NASA Range Safety is currently working to revamp the Range Flight Safety Analysis Course and is preparing to transfer instruction of the Range Safety Operations course to WFF in 2011.

Range Safety also participated in the evaluation of several emerging technologies, including the Autonomous Flight Safety System (AFSS) for expendable launch vehicles. The second sounding rocket flight test, which represents the third major flight test of the AFSS, was accomplished successfully during the last year. The Joint Advanced Range Safety System (JARSS) also continues to make progress toward achieving its goal of supporting Unmanned Aircraft Systems and Reusable Launch Vehicles at all ranges. In the past year, Kennedy Space Center (KSC) adopted JARSS to accomplish range safety risk analysis.

We hope you found our web-based format for the Range Safety Annual Report to be usable and informative. As we move into 2011, we look forward to the opportunities and challenges of ensuring the safety of NASA activities and operations.

Anyone having questions or wishing to have an article included in the 2011 Range Safety Annual Report should contact Alan Dumont, the NASA Range Safety Program Manager located at the Kennedy Space Center, or Michael Dook at NASA Headquarters.